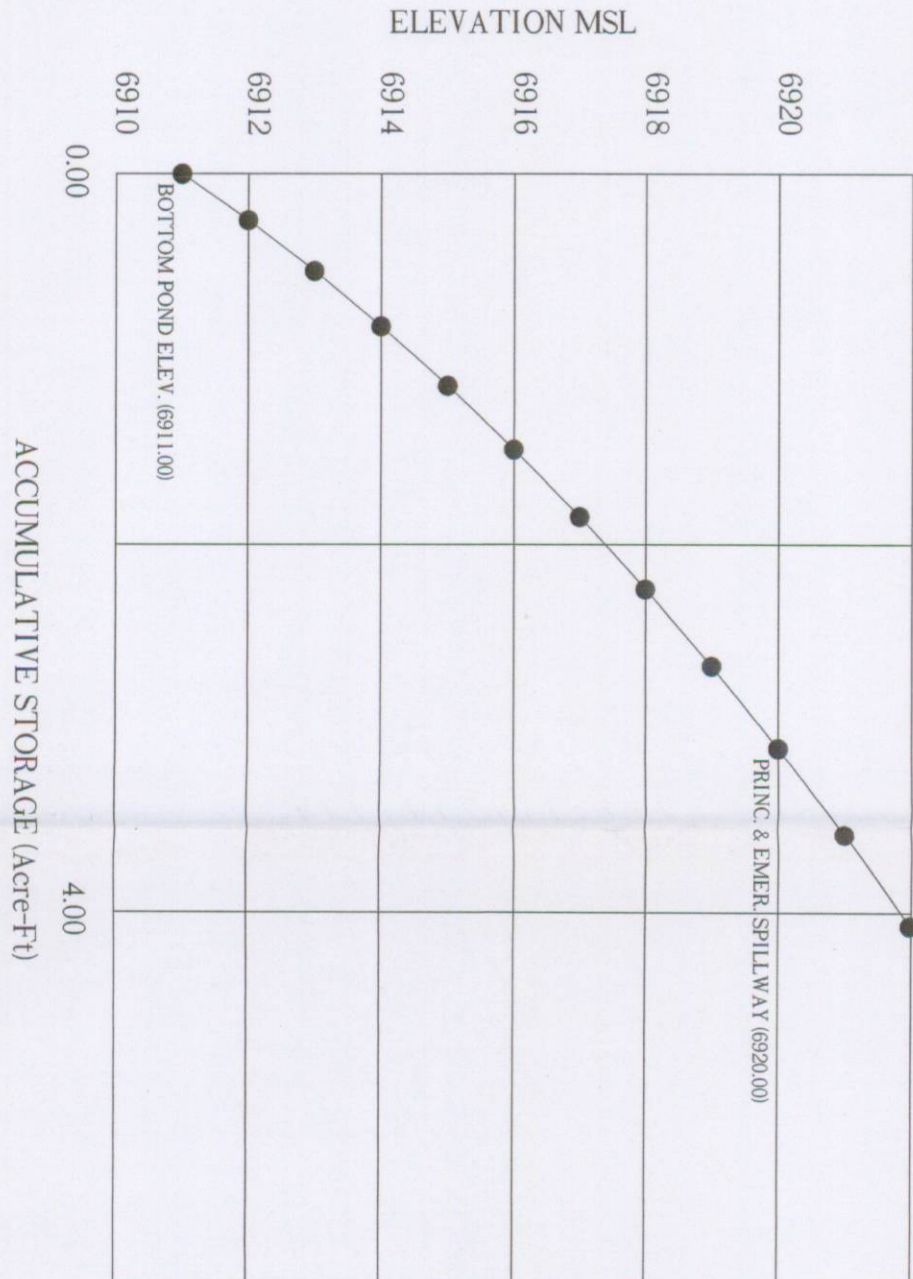
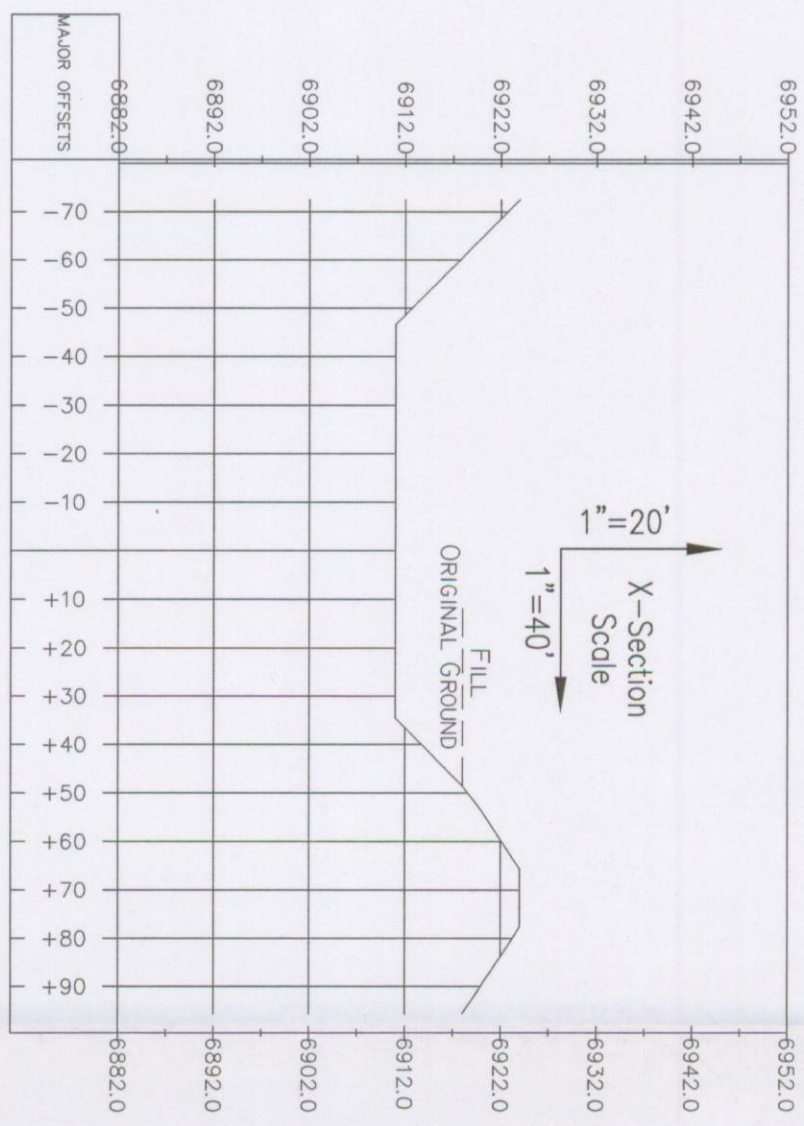


1. AREAS TO RECEIVE FILL AND/OR BACKFILL SHOULD BE STRIPPED OF ALL VEGETATION, ORGANIC MATERIAL, AND DEBRIS. EXISTING UNDOCUMENTED OR NON-STRUCTURAL FILL/BACKFILL MATERIALS AND OTHER UNSUITABLE MATERIALS SHOULD BE EXCAVATED IN THEIR ENTIRETY. ALL AREAS THAT ARE TO RECEIVE FILL SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FILL.
2. FILL SHOULD BE COMPACTED TO 85 % OF THE MAXIMUM DENSITY AS DETERMINED BY PROCTOR OR STANDARD PROCTOR TEST AND 90% FOR THE SEDIMENTATION DISEMBARKMENTS.
3. LIFT THICKNESS FOR THE SEDIMENTATION POND SHOULD NOT EXCEED 12 INCHES. LIFT THICKNESS FOR THE SPILLWAY SHOULD BE AS LARGE AS 4 FEET. THE LIFT THICKNESS MAY BE INCREASED OR DECREASED RELATIVE TO THE RESULTS OF COMPACTION TEST RESULTS. THE APPLICATION AS APPROVED BY THE GEOTECHNICAL ENGINEER.
4. SATURATED SOILS SHOULD BE PLACED IN AN AREA THAT WILL HAVE MINIMAL EFFECT ON THE PERFORMANCE OF THE SLOPES.
5. NATIVE UNDISTURBED SOILS TO SERVE AS SUBGRADE FOR THE POND EMBANKMENTS SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES. MOISTURE CONTENT SHOULD BE ADJUSTED TO AT LEAST 90 % RELATIVE HUMIDITY. THE SOIL SHOULD BE COMPACTED TO AT LEAST 90 % RELATIVE COMPACTION.
6. A QUALIFIED GEOTECHNICAL ENGINEERING FIRM SHOULD OBSERVE THE CONSTRUCTION OF THE POND AND SPILLWAY. THE ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT AND RELATIVE COMPACTION AS OUTLINED HEREIN. IF LESS THAN THE SPECIFIED RELATIVE COMPACTION IS OBTAINED, ADDITIONAL COMPACTION SHALL BE REQUIRED. THE CONTRACTOR SHALL PROVIDE RELATIVE COMPACTION IS ATTAINED. THE CONTRACTOR SHOULD PROVIDE LEVEL TESTING PADS ON WHICH GEOTECHNICAL TESTING OF THE FILL PLACEMENT NECESSARY BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHOULD PROVIDE SAFE AND TIMELY ACCESS FOR ENGINEERING PERSONNEL THROUGHOUT THE GRADING SITE TO ALLOW CONTINUED MONITORING AND TESTING.
7. WHEREVER, IN THE OPINION OF THE OWNER'S REPRESENTATIVES, AN UNSTABLE CONDITION IS BEING CREATED EITHER BY CUTTING OR FILLING, THE WORK SHOULD NOT PROCEED IN THAT AREA UNTIL AN EVALUATION HAS BEEN MADE AND THE GRADING OPERATIONS REVISED IF FOUND NECESSARY.
8. FILL SHOULD NOT BE PLACED, SPREAD OR ROLLED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK IS COMPLETED, THE FILL SHOULD BE PROTECTED FROM EROSION. FILL OPERATIONS SHOULD NOT BE RESUMED UNTIL FIELD INSPECTIONS INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF THE FILL ARE PREVIOUSLY SPECIFIED.
9. WHENEVER THE WORKS SUPERVISOR "INSPECTION" OR "CONTROL" APPEAR THEY SHOULD MEAN OBSERVATION OF THE WORK AND TESTING OF THE FILL PLACEMENT NECESSARY BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHOULD PROVIDE SAFE AND TIMELY ACCESS FOR ENGINEERING PERSONNEL THROUGHOUT THE GRADING SITE TO ALLOW CONTINUED MONITORING AND TESTING.

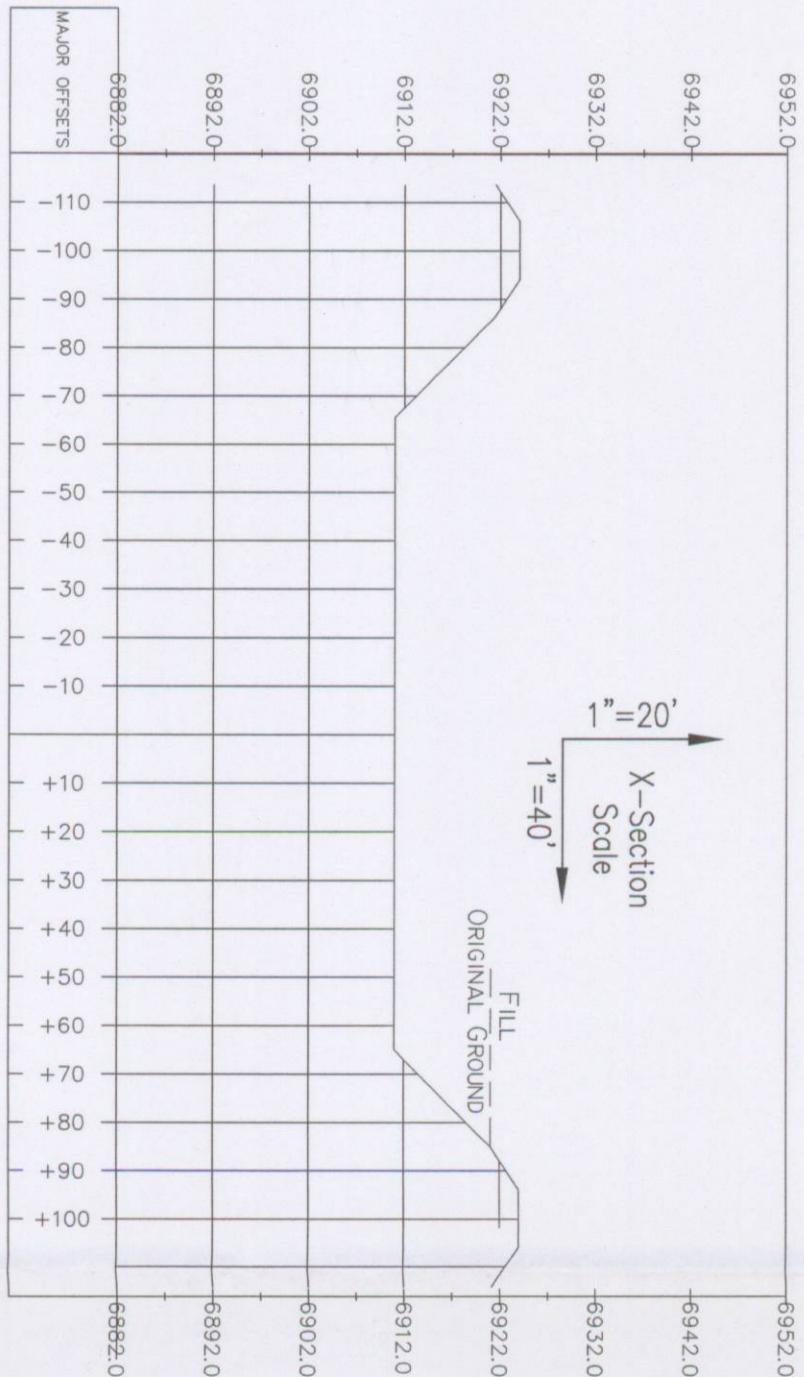


STORAGE VOLUME COMPUTATIONS
Sediment Control Structure No. 1

ELEV. (ft)	WIDTH (ft)	LENGTH (ft)	AREA (ac)	AVG. AREA (ac)	INTERVAL (ft)	STORAGE (ac-ft)	ACC. STORAGE (ac-ft)	STAGE INTERVAL (ft)
6911.00	NA	0.2320	0.2485	0.2485	1.00	0.2485	0.2485	1.00
6912.00	NA	0.2650	0.2760	0.2760	1.00	0.2760	0.5245	2.00
6913.00	NA	0.2870	0.2980	0.2980	1.00	0.2980	0.8225	3.00
6914.00	NA	0.3090	0.3200	0.3200	1.00	0.3200	1.1425	4.00
6915.00	NA	0.3310	0.3425	0.3425	1.00	0.3425	1.4850	5.00
6916.00	NA	0.3540	0.3655	0.3655	1.00	0.3655	1.8505	6.00
6917.00	NA	0.3770	0.3885	0.3885	1.00	0.3885	2.2400	7.00
6918.00	NA	0.4020	0.3985	0.3985	1.00	0.4155	2.6555	8.00
6919.00	NA	0.4290	0.4165	0.4165	1.00	0.4440	3.0995	9.00
6920.00	NA	0.4590	0.4755	0.4755	1.00	0.4755	3.5750	10.00
6921.00	NA	0.4920	0.4755	0.4755	1.00	0.4755	3.5750	10.00
6922.00	NA	0.5190	0.5055	0.5055	0.984	0.4954	4.0704	10.98



SL-1



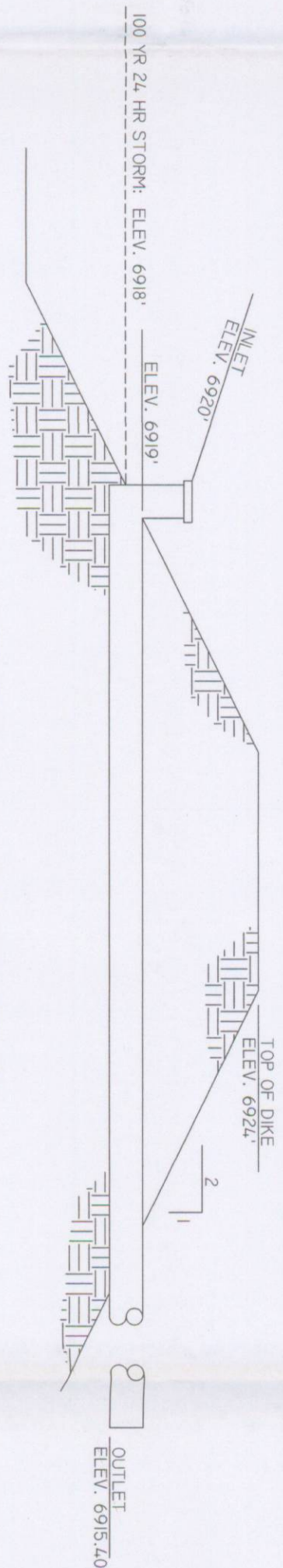
SL-2



POND #1 - PLAN

SCALE: 1" = 20'

1
C9.0



TYPICAL CROSS SECTION
Not to Scale

CONSULTANT:



LESLIE & ASSOCIATES
444 South Main Street
Cedar City, Utah 84720
Phone: (435)586-9474
FAX: (435)586-9399
CIVIL ENGINEERS
LAND SURVEYORS

DRAWN BY:
KRB

DRAWING:

JOB NUMBER:
594-01-01

CHECKED BY:
JL

DATE:
11/08/2010

SCALE:
AS NOTED

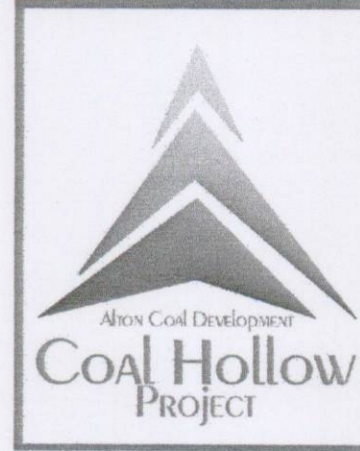
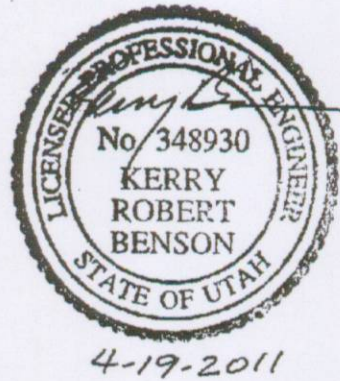
REVISIONS

DATE: 4/19/2011 BY: KRB

SEDIMENT IMPOUNDMENT POND 1 DETAILS

COAL HOLLOW PROJECT
ALTON, UTAH

DRAWING: C 9.0



463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435)867-5331
Fax (435)867-1192